# SEARCH REQUEST FORM

#### Scientific and Technical Information Center

Requester's Full Name: Requester's Full Name: Phone N	Examiner #: 6841 Date: 12403  Jumber 30 Serial Number: 07851874  Examiner #: 6841 Date: 12403  Serial Number: 07851874  Examiner #: 6841 Date: 12403
Mail Box and Bldg/Room Location	PAPER DISK E-MAI
If more than one search is submitted, please prioritize searches in order of need.  **********************************	
Inventors (please provide full names):	
Earliest Priority Filing Date:	
1	te all pertinent information (parent, child, divisional, or issued patent numbers) along with the
appropriate serial number.	
	•
	US 5790272
****	*************
STAFF USE ONLY	Type of Search Vendors and cost where applicable
Searcher: KET .	NA Sequence (#) STN_
Searcher Phone #:	AA Sequence (#) Dialog
Searcher Location:	Structure (#) Questel/Orbit
Date Searcher Picked Up: 118 4103	Bibliographic Dr.Link Dr.Link
Date Completed: 112-4103	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext Sequence Systems
Online Time:	Patent Family WWW/Internet  Other Other (specify)

PTO-1590 (8-01)

Online Time:

### Query/Command: prt max legalall

/// PLUSPAT - @QUESTEL-ORBIT - image

\*US5790272 A 19980804 [US5790272] PN

(A) Multi-tone image processing method and apparatus TI

(A) MINOLTA CO LTD (JP) PA

(A) GOTO HIROSHI (JP); DEISHI SATOSHI (JP) IN

US32392494 19941017 [1994US-0323924] ΑP

JP25969193 19931018 [1993JP-0259691] PR

(A) H04N-001/405 IC

H04N-001/40F EC

ORIGINAL (O): 358003240 **PCL** 

Basic DT

US4342051; US4517606; US4967211; US5041920; US5099259; US5258780; US5270827 CT

(A) United States patent **STG** 

A multi-tone image processing method and apparatus in which mutually dissimilar tone levels are realized by AΒ changing the additive condition of recording energy by means of different recording positions, even when the number of recording operations within a specific range is identical. For example, in an electrophotographic apparatus, when the number of irradiation by a light spot within a specific range remains constant as the irradiation position is changed in the specific range, there is a change in the additive condition of the optical energy within said specific range. Thus, the area rendered visible within the aforesaid specific range also changes, thereby changing the tone level.

/// LGST - ©LEGSTAT

US 5790272 [US5790272] PN

US 323924/94 19941017 [1994US-0323924] AP

US-P DT

ACT 19941017 US/AE-A

APPLICATION DATA (PATENT)

US 323924/94 19941017 [1994US-0323924]

19941017 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

MINOLTA CO., LTD. OSAKA KOKUSAI BLDG. 3-13 2-CHOME, AZUCHI-MACHI, CHUO-KU

OSAKA- \* GOTO, HIROSHI: 19941006; DEISHI, SATOSHI: 19941006

19980804 US/A

**PATENT** 

19990601 US/RF

REISSUE APPLICATION FILED

19990409

UP 2000-03

1/1 CRXX - @CLAIMS/RRX

PN 5,790,272 A 19980804 [US5790272] PA - Minolta Co Ltd JP

ACT - 19990409 REISSUE REQUESTED

Issue Date of O.G.: 19990601

Reissue Request Number: 09/288966

Examination Group responsible for Reissue process: 2722

1/1 PAST - @Thomson Derwent

AN - 199922-001472

PN - 5790272 A [US5790272]

**OG** - 1999-06-01

ACT - REISSUE APPLICATION FILED

LEVEL 1 - 1 OF 1 PATENT

## UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5790272

LEXIS-NEXIS
Library: PATENT
File: ALL

#### <=1> GET 1st DRAWING SHEET OF 22

August 4, 1998

Multi-tone image processing method and apparatus

REISSUE: Reissue Application filed Apr. 9, 1999 (O.G. Jun. 1, 1999) Ex. Gp.:

2722; Re. S.N. 09/288,966, (O.G. June 1, 1999)

APPL-NO: 323924 (08)

FILED-DATE: October 17, 1994

GRANTED-DATE: August 4, 1998

CORE TERMS: exposure, cell, recording, optical, energy, tone, laser, picture,

counter, photosensitive ...

#### ENGLISH-ABST:

A multi-tone image processing method and apparatus in which mutually dissimilar tone levels are realized by changing the additive condition of recording energy by means of different recording positions, even when the number of recording operations within a specific range is identical. For example, in an electrophotographic apparatus, when the number of irradiation by a light spot within a specific range remains constant as the irradiation position is changed in the specific range, there is a change in the additive condition of the optical energy within said specific range. Thus, the area rendered visible within the aforesaid specific range also changes, thereby changing the tone level.

5,790,272 OR 5790272

LEXIS-NEXIS
Library: PATENT
File: CASES

Your search request has found no CASES.

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For further explanation, press the H key (for HELP) and then the  ${\tt ENTER}$  key.

5,790,272 OR 5790272

LEXIS-NEXIS
Library: PATENT
File: JNLS

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5,790,272 OR 5790272

LEXIS-NEXIS
Library: NEWS
File: CURNWS

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What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

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*?s pn=us 5790272
              1 PN=US 5790272
     S3
 ?t 3/39/1
  3/39/1
 DIALOG(R) File 345: Inpadoc/Fam. & Legal Stat
 (c) 2003 EPO. All rts. reserv.
 12400098
 Basic Patent (No, Kind, Date): JP 7115538 A2 19950502
                                                      <No. of Patents: 002>
 Patent Family:
                                 Applic No
                                            Kind Date
                 Kind Date
     Patent No
                  A2 19950502 JP 93259691 A
                                                        19931018 (BASIC)
     JP 7115538
                                    US 323924
                    A 19980804
                                                   Α
     US 5790272
 Priority Data (No, Kind, Date):
     JP 93259691 A 19931018
 PATENT FAMILY:
 JAPAN (JP)
   Patent (No, Kind, Date): JP 7115538 A2 19950502
     METHOD AND DEVICE FOR RECORDING GRADATION (English)
     Patent Assignee: MINOLTA CO LTD
     Author (Inventor): GOTO HIROSHI; IZUSHI SATOSHI
     Priority (No, Kind, Date): JP 93259691 A 19931018
     Applic (No, Kind, Date): JP 93259691 A 19931018
     IPC: * H04N-001/405
     Derwent WPI Acc No: * G 95-197843; G 95-197843
     Language of Document: Japanese
 UNITED STATES OF AMERICA (US)
   Patent (No, Kind, Date): US 5790272 A 19980804
     MULTI-TONE IMAGE PROCESSING METHOD AND APPARATUS (English)
     Patent Assignee: MINOLTA CO LTD (JP)
     Author (Inventor): GOTO HIROSHI (JP); DEISHI SATOSHI (JP)
     Priority (No, Kind, Date): JP 93259691 A 19931018
     Applic (No, Kind, Date): US 323924 A 19941017
     National Class: * 358460000; 358298000; 358456000; 358458000;
       358459000
     IPC: * H04N-001/405
     Derwent WPI Acc No: * G 95-197843
     Language of Document: English
 UNITED STATES OF AMERICA (US)
   Legal Status (No, Type, Date, Code, Text):
                        19931018 US AA
                                                PRIORITY (PATENT)
     US 5790272
                     Ρ
                               JP 93259691 A 19931018
                                               APPLICATION DATA (PATENT)
     US 5790272
                         19941017 US AE
                               (APPL. DATA (PATENT))
                               US 323924 A 19941017
                                               ASSIGNMENT OF ASSIGNOR'S
                     P 19941017 US AS02
     US 5790272
                               INTEREST
                               MINOLTA CO., LTD. OSAKA KOKUSAI BLDG. 3-13
                               2-CHOME, AZUCHI-MACHI, CHUO-KU OSAKA-; GOTO,
                               HIROSHI: 19941006; DEISHI, SATOSHI:
                               19941006
                         19980804 US A
19990601 US RF
   US 5790272
                                                PATENT
                     Р
                                                REISSUE APPLICATION FILED
     US 5790272
                    Ρ
                               (REISSUE APPL. FILED)
                               19990409
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